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L19: Entry 2 of 2

File: DWPI

Oct 23, 2003

DERWENT-ACC-NO: 2000-052988

DERWENT-WEEK: 200377

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TITLE: Current vehicle location display method using vehicle mounted GPS based navigation system

INVENTOR: LOU, Y; MILLINGTON, J A ; SLOMINSKI, A A

PATENT-ASSIGNEE: MAGELLAN DIS INC (MAGEN)

PRIORITY-DATA: 1998US-0114670 (July 13, 1998), 1998US-084292P (May 5, 1998)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> DE 69911399 E	October 23, 2003		000	G01C021/20
<input type="checkbox"/> WO 9957517 A1	November 11, 1999	E	026	G01C021/20
<input type="checkbox"/> AU 9936502 A	November 23, 1999		000	G01C021/20
<input type="checkbox"/> US 6049755 A	April 11, 2000		000	G01C021/00
<input type="checkbox"/> EP 1078222 A1	February 28, 2001	E	000	G01C021/20
<input type="checkbox"/> EP 1078222 B1	September 17, 2003	E	000	G01C021/20

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW AT BE CH DE ES FI FR GB IT LI NL SE AT BE CH DE ES FI FR GB IT LI NL SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 69911399E	April 16, 1999	1999DE-0611399	
DE 69911399E	April 16, 1999	1999EP-0918638	
DE 69911399E	April 16, 1999	1999WO-US08459	
DE 69911399E		EP 1078222	Based on
DE 69911399E		WO 9957517	Based on
WO 9957517A1	April 16, 1999	1999WO-US08459	
AU 9936502A	April 16, 1999	1999AU-0036502	
AU 9936502A		WO 9957517	Based on

US 6049755A	May 5, 1998	1998US-084292P	Provisional
US 6049755A	July 13, 1998	1998US-0114670	
EP 1078222A1	April 16, 1999	1999EP-0918638	
EP 1078222A1	April 16, 1999	1999WO-US08459	
EP 1078222A1		WO 9957517	Based on
EP 1078222B1	April 16, 1999	1999EP-0918638	
EP 1078222B1	April 16, 1999	1999WO-US08459	
EP 1078222B1		WO 9957517	Based on

INT-CL (IPC): G01 C 21/00; G01 C 21/20; G01 S 5/00; G06 G 7/78

ABSTRACTED-PUB-NO: US 6049755A

BASIC-ABSTRACT:

NOVELTY - The previous cross-street (64) and the next cross-street of the location street of the vehicle are displayed, where the previous and next cross-streets have a rank greater than the threshold rank when the rank of the location street is greater than the threshold rank. The display cross-streets between the next cross-street and previous cross-street that have rank equal to or less than the threshold rank are excluded from the display.

DETAILED DESCRIPTION - The database of road segments is created where each road segment has a predefined rank. The current vehicle location relative to the database of roads is determined and the determined location is displayed on the display. The location street is displayed based on the current vehicle location. The cross-street and next cross-street of the location street are displayed in a predefined manner. The previous and next cross-streets having any rank are displayed when the rank of the location street is equal to or less than the threshold rank.

An INDEPENDENT CLAIM is also included for vehicle location display of the navigation system.

USE - For displaying current vehicle location using vehicle mounted GPS based navigation system, either in graphical display mode or textual display mode.

ADVANTAGE - Facilitates provision of vehicle location display that automatically reduces the complexity of the displayed map, by filtering out the display cross-streets having a rank equal to or lower than the threshold rank and that are located between next and previous cross-streets, and shows the current vehicle location and that permits the user to access stored textual information rapidly using a minimum number of key strokes.

DESCRIPTION OF DRAWING(S) - The figure shows the screen display of a vehicle location display device.

Previous cross-street 64

ABSTRACTED-PUB-NO: WO 9957517A
EQUIVALENT-ABSTRACTS:

NOVELTY - The previous cross-street (64) and the next cross-street of the location street of the vehicle are displayed, where the previous and next cross-streets have a rank greater than the threshold rank when the rank of the location street is greater than the threshold rank. The display cross-streets between the next cross-

street and previous cross-street that have rank equal to or less than the threshold rank are excluded from the display.

DETAILED DESCRIPTION - The database of road segments is created where each road segment has a predefined rank. The current vehicle location relative to the database of roads is determined and the determined location is displayed on the display. The location street is displayed based on the current vehicle location. The cross-street and next cross-street of the location street are displayed in a predefined manner. The previous and next cross-streets having any rank are displayed when the rank of the location street is equal to or less than the threshold rank.

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DESCRIPTION OF DRAWING(S) - The figure shows the screen display of a vehicle location display device.

Previous cross-street 64

CHOSEN-DRAWING: Dwg. 3/5

DERWENT-CLASS: S02 T01 W06 X22

EPI-CODES: S02-B08E; S02-B08G; T01-J06B; T01-J10C2; W06-A03A5; W06-A08; X22-E06D;

[Previous Doc](#) [Next Doc](#) [Go to Doc#](#)